

Structure Policy Directive

Number: SPD 1-2
References: None
Effective Date: June 30, 2017
Supersedes: September 1, 2014

TITLE Bridge and Transportation Structure Policies, Requirements, and Technical Practices and Procedures

DIRECTIVE

This Directive defines bridge and transportation structure policies, requirements, and technical practices and procedures.

BACKGROUND

Policies and standards for the design, construction, and maintenance of bridges and transportation structures reside in a variety of formats. Much of this information is developed and maintained by a number of sources within the strategic organization. While the current framework has been adequate, there is a need to ensure uniformity and clarity for structure policies, requirements, technical practices and procedures.

DEFINITIONS

Structure Policy Directives (SPDs)

Overarching policies under the authority of the Structure Policy Board (SPB) for ALL bridges and transportation structures located on public roads in California.

SPDs are cross cutting, significant and define the basis for the strategic organization to execute the objectives of the California Bridge and Structures Strategic Direction (CBSSD). SPDs are bound in time, and are reviewed and updated on a regular basis to ensure they provide direction consistent with the Department's policies, directives and strategic plans.

Bridge and Transportation Structures Policy:

Direction to the strategic organization regarding the design, construction and maintenance of bridges and transportation structures to guide decisions and achieve rational outcomes. Bridge and transportation policies are statements of intent, and are implemented through requirements, procedures, and practices.

Bridge and Transportation Structures Requirements:

Criteria, specifications, or standards established or adopted by the SPB that are employed in the design, construction and maintenance of bridges and transportation structures. Design specifications define the minimum level of performance for inclusion in a bridge or transportation structure. Construction contract standards include pre-engineered work and contract specifications that are incorporated into construction contract documents.

Bridge and Transportation Structure Technical Procedures/Practices:

A sequence of activities taken together to fulfill the intent of Bridge and Transportation Structure policies and requirements. Technical Practices/Procedures (TPPs) are the guiding principles and recommended courses of action necessary to achieve the requirements for a particular set of conditions. TPPs are often referred to as Standard Business Practices. TPPs state the boundaries or limitations upon which the guidance is based.

TPPs are often methods or tools intended to assist the engineer in the application of specific standards or policies and procedures. TPPs describe how each policy or requirement will be put into action by the strategic organization.

RESPONSIBILITIES

Structure Policy Board (SPB):

- Approves and issues SPDs
- Approves exceptions to SPDs per SPD 1-3

Structure Policy Board Members

- Approve and issue bridge and transportation structure policy and requirements within their authority as defined in SPD 1-1
- Sub-delegate the approval of requirements to technical managers within their organization
- Implement a quality management plan within their organization to ensure structures policies and requirements are met

Technical Steering Committee:

- Implements SPB technical policy in support of strategic objectives
- Oversees the development of requirements and technical standards and guidance procedures/practices
- Monitors and reports on the delivery of policy, standards and guidance

Technical Managers:

- Develop and implement structure requirements
- Incorporate SPDs requirements into standards, and practices/procedures.
- Implement a quality management plan within their organization that ensures bridge and transportation structure policies and requirements are met

Engineer of Record:

- Ensures bridge and transportation structure policies and standards are met in accordance with the requirements of SPD 1-3

Asset Owner:

- Ensures SPD policies and standards are followed

APPLICABILITY

All entities involved in the design, construction, and maintenance of all bridges and transportation structures located on:

- The State Highway System, in accordance with Streets & Highways Code 137 and the California Department of Transportation (Caltrans) Highway Design Manual
- Public roads in California, in accordance with the Federal Code of Regulations 23CFR625.3 and Caltrans Local Assistance Procedures

Policies, standards, and guidance for bridges and structures shall be in agreement with SPDs. In the event of a conflict with other Caltrans published policies, standards and guidance, the SPD shall govern.

The members of the Structure Policy Board hereby approve this Directive.

Approved by:



THOMAS A.OSTROM
State Bridge Engineer
Deputy Division Chief
Structure Policy & Innovation
Division of Engineering Services